

CLAIMS SECTION NOW PENDING

1. A temperature sensor comprising:
a temperature sensing element having electrodes thereon; and
elongated electrically conductive lead lines each attached to a corresponding one of said electrodes, said lead lines being elastic, said lead lines each having one end attached to a corresponding one of said electrodes and including an externally exposed semicircular kinked part proximal to the other end, said lead lines being bent in a same direction with respect to each other to form said kinked part such that the kinked parts on said lead lines are in a side-by-side relationship.

6. The temperature sensor of claim 1 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

8. The temperature sensor of claim 1 further comprising an electrically insulating cover which covers said temperature sensing element and said lead lines.

21. A temperature sensor comprising:
a temperature sensing element having electrodes thereon;
elongated electrically conductive lead lines each having one end attached to a corresponding one of said electrodes and a semi-circularly formed externally exposed kinked part proximal to the other end thereof, said lead lines being bent in a same direction with respect to each other to form said kinked part such that the kinked parts on said lines are in a side-by-side relationship; and
an electrically insulating cover which covers said temperature sensing element and

portions of said lead lines but leaves the kinked parts exposed.

23. The temperature sensor of claim 21 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

24. The temperature sensor of claim 21 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

25. The temperature sensor of claim 21 wherein said temperature sensing element is an NTC thermistor element.

26. A temperature sensor comprising:
a temperature sensing element having electrodes thereon; and
elongated electrically conductive lead lines each attached to a corresponding one of said electrodes, said lead lines being elastic, said lead lines each having one end portion attached to a corresponding one of said electrodes and an externally exposed opposite end portion which includes a semicircular kinked part sandwiched between two mutually colinearly extending portions.

27. The temperature sensor of claim 26 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

28. The temperature sensor of claim 26 further comprising an electrically insulating cover which covers said temperature sensing element and said lead lines.

29. The temperature sensor of claim 21 wherein said kinked part is sandwiched between two mutually colinearly extending portions.

30. The temperature sensor of claim 29 wherein said lead lines are bent in a same direction to form said kinked parts.

31. The temperature sensor of claim 29 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

32. The temperature sensor of claim 30 wherein said conductive lead lines comprise a material selected from the group consisting of phosphor bronze, german silver, beryllium, SUS, Cu-Ti alloys, brass, plated phosphor bronze, plated german silver, plated beryllium, plated SUS, plated Cu-Ti alloys and plated brass.

33. The temperature sensor of claim 29 wherein said temperature sensing element is an NTC thermistor element.